

5 CLAIMS

What is Claimed is:

1. A current switch or an amplifier consisting of:
  - a) at least one normally off Field Effect Transistor (FET), and
  - b) a starter device coupled to said FET.
- 10 2. A current switch or an amplifier according to Claim 1 wherein said starter device is a Bipolar Junction Transistor (BJT) including:
  - a) a BJT connected externally;
  - b) a BJT designed along with said JFET, and
  - c) a BJT as a device parasitic to said JFET.
- 15 3. A current switch or an amplifier according to Claim 1 wherein said starter device is a Metal Oxide Silicon Field Effect Transistor (MOSFET).
4. A current switch or an amplifier according to Claim 1 wherein said starter device is a series coupling of at least two normally off Junction Field Effect Transistors (JFET).
- 20 5. A current switch or an amplifier according to Claim 1 wherein said starter device is a parallel coupling of at least two of said BJT and said MOSFET and said series coupling of three normally off JFETs.
6. A current switch or an amplifier consisting of:
  - a) at least one normally off, symmetrical, Junction Field Effect Transistor
  - 25 (JFET), and
  - b) a starter device coupled to said JFET.

5           7. A current switch or an amplifier according to Claim 6 wherein said starter device is a Bipolar Junction Transistor (BJT).

8. A current switch or an amplifier according to Claim 6 wherein said starter device is a Metal Oxide Silicon Field Effect Transistor (MOSFET).

9. A current switch or an amplifier according to Claim 6 wherein said  
10 starter device is a series coupling of three normally off Junction Field Effect Transistors (JFET).

10. A current switch or an amplifier according to Claim 6 wherein said starter device is a parallel coupling of at least two of said BJT and said MOSFET and said series coupling of three normally off JFETs.

15           11. A current switch or an amplifier consisting of:

a) at least one normally off, asymmetrical, Junction Field Effect Transistor (JFET), and

b) a starter device coupled to said JFET.

12. A current switch or an amplifier according to Claim 11 wherein said  
20 starter device is a Bipolar Junction Transistor (BJT).

13. A current switch or an amplifier according to Claim 11 wherein said starter device is a Metal Oxide Silicon Field Effect Transistor (MOSFET).

14. A current switch or an amplifier according to Claim 11 wherein said  
starter device is a series coupling of three normally off Junction Field Effect  
25 Transistors (JFET).

5           15. A current switch or an amplifier according to Claim 11 wherein said starter device is a parallel coupling of at least two of said BJT and said MOSFET and said series coupling of three normally off JFETs.

          16. A current switch or an amplifier consisting of:

- a) at least one normally off, symmetrical, Metal Silicon Field Effect  
10 Transistor (MESFET), and  
          b) a starter device coupled to said MESFET.

          17. A current switch or an amplifier according to Claim 16 wherein said starter device is a Bipolar Junction Transistor (BJT) including:

- a) a BJT connected externally;  
15           b) a BJT designed along with said JFET, and  
          c) a BJT as a device parasitic to said JFET.

          18. A current switch or an amplifier according to Claim 16 wherein said starter device is a Metal Oxide Silicon Field Effect Transistor (MOSFET).

          19. A current switch or an amplifier according to Claim 16 wherein said  
20 starter device is a series coupling of three normally off Junction Field Effect Transistors (JFET).

          20. A current switch or an amplifier according to Claim 16 wherein said starter device is a parallel coupling of at least two of said BJT and said MOSFET and said series coupling of three normally off JFETs.